

# **Parts and Equipment Guide**

For LC Systems

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Introduction 1

Customers can order and replace only the parts and equipment in this guide. To order parts and equipment, go to SCIEX Now.

Note: For information about parts not included in this document, go to SCIEX Now.



WARNING! Personal Injury Hazard. Use SCIEX-recommended parts only. The use of parts that are not recommended by SCIEX or the use of parts for any purpose other than their intended purpose can put the user at risk of harm or have a negative effect on system performance.

**Table 2-1 Spare Parts** 

Part Number	Description
5080065	Accessory kit for ExionLC 2.0 autosampler
5080051	Accessory kit for ExionLC 2.0 Binary Pump
5081483	Accessory kit for ExionLC 2.0 Binary Pump+
5080294	Accessory kit for ExionLC 2.0 Column switching kit (eight columns)
5080293	Accessory kit for ExionLC 2.0 Column switching kit (two columns)
5080050	Accessory kit for ExionLC 2.0 LPG Pump
5081461	Adapter, waste cap, 8 mm tubing
5080055	Air needle, black, 80 mm
5080736	Air needle, blue, 68 mm
5080737	Air needle, green, 74 mm
5080735	Air needle, natural, 62 mm
5080734	Air needle, red, 56 mm
5080733	Air needle, yellow, 50 mm
5080073	Allen wrench, Torx, T10
5080064	Bottle, 250 mL, plastic, rectangular
5087602	Bottle set, 4x 1L, with caps
5083232	Box, ExionLC 2.0 autosampler, including padding
5083231	Box,ExionLC 2.0 Column Oven, including padding
5083565	Box, ExionLC 2.0 detectors, including padding
5083566	Box, ExionLC 2.0 pumps, including padding

**Table 2-1 Spare Parts (continued)** 

Part Number	Description
5083564	Box, Valve Drive, including padding
5080731	Buffer tubing, 2000 μL, with fittings
5080730	Buffer tubing, 500 μL, with fittings
5086149	Bushing kit, ceramic pump head, Wash System-200
5085870	Capillary Adapter, pack of 4
5085873	Capillary Holder, self-adhesive, pack of 4
5083180	Capillary, filter to mixer, for ExionLC 2.0 Binary Pump-200+
5083179	Capillary, purge valve to filter, ExionLC 2.0+
5083171	Capillary, SS, 150 mm for ExionLC 2.0 Binary Pump-200+
5083172	Capillary, SS, 300 mm for ExionLC 2.0 Binary Pump-200+
5083181	Capillary, valve to main pressure sensor
5080925	Check valve, dummy, ExionLC 2.0 pump
5081225	Check valve, ExionLC 2.0 pump heads
5085869	Double Tee, Wash System-200
5081564	ExionLC 2.0 torque wrench insert set
5078657	ExionLC 2.0 Sample Loop 10 μL
5078659	ExionLC 2.0 Sample Loop 100 μL
5078655	ExionLC 2.0 TOOL KIT
5078643	FCSS10-200 ExionLC 2.0 Detector Flow Cell 50 bar
5078645	FCSS50-200 ExionLC 2.0 Detector Flow Cell HS 50 bar
5078647	FCTI10-200 ExionLC 2.0 Detector Flow Cell 300 bar
5087205	Ferrule, Stainless steel, 1/16"
5081460	Filter, exhaust, ExionLC 2.0 system
5080846	Filter, inline, ExionLC 2.0 pump
5083170	Filter, inline for ExionLC 2.0 high pressure pump
5081465	Filter, solvent inlet, with fitting, ExionLC 2.0system
5080056	Fuse, 2.5AT (μL)

**Table 2-1 Spare Parts (continued)** 

Part Number	Description
5080052	General accessory kit for ExionLC 2.0 system modules
5083198	Guide, upper capillary, ExionLC 2.0 Binary Pump-200+
5082705	Kit, 1 mL, for ExionLC 2.0 Autosampler and Autosampler+
5081237	Kit, fitting, solvent tubing, ExionLC 2.0 system
5081234	Kit, leak management, ExionLC 2.0 system
5081469	Kit, PM, ExionLC 2.0 Autosampler
5081470	Kit, PM, ExionLC 2.0 Autosampler+
5081486	Kit, pump deairation, ExionLC 2.0 system
5081485	Kit, pump head seal tool, ExionLC 2.0 pump +
5083203	Kit, pump head wear parts, for ExionLC 2.0 Binary Pump-200+
5082719	Kit, purge valve outlet tubing
5082707	Kit, seal tools for Binary Pump-200 and LPGP-200 pump heads
5081233	Kit, tubing, 1/8 inch o.d., with fittings
5081238	Kit, tubing, ExionLC 2.0 Binary Pump
5081235	Kit, tubing, degas to pump, ExionLC 2.0 system
5081239	Kit, tubing, ExionLC 2.0 LPG Pump
5081236	Kit, tubing, with fittings, ExionLC 2.0 LPG Pump
5080868	Lamp, deuterium, ExionLC 2.0 Detector Diode Array Detector/ Multi Wavelength Detector
5080866	Lamp, deuterium, ExionLC 2.0 Detector Diode Array Detector, High Sensitivity
5080867	Lamp, halogen, ExionLC 2.0 Detector Diode Array Detector, High Sensitivity
5087203	Luer-Lock Adapter, ETFE
5081229	Mixer, 50 μL, ExionLC 2.0 pump
5087209	Nut, stainless steel, 1/16"
5081222	O-ring, ExionLC 2.0 pump heads
5083186	O-ring, pump head, ExionLC 2.0 Binary Pump-200+

**Table 2-1 Spare Parts (continued)** 

Part Number	Description
5080044	Patch cable CAT5e RJ45/RJ45, 3 m
5081220	Piston, ExionLC 2.0 pump heads
5083182	Piston, ExionLC 2.0 Binary Pump-200+ and LPGP-200+
5080725	Plate, 84 × 1.5 mL vials, 3 × 10 mL vials
5080058	Plate, vial, 48 × 1.5 mL
5083196	Plug, purge valve, ExionLC 2.0 Binary Pump-200+
5087211	PM Kit, ExionLC 2.0 Binary Pump+
5081563	PM Kit, ExionLC 2.0 Binary Pump
5081562	PM Kit, ExionLC 2.0 LPG Pump
5080924	Pump head, 10 mL, stainless steel, 1240 bar ExionLC 2.0 system
5080923	Pump head, 10 mL, stainless steel, 860 bar ExionLC 2.0 system
5083191	Pump head backing ring, ExionLC 2.0 Binary Pump-200+
5083193	Pump head inlet bushing, ExionLC 2.0 Binary Pump-200+
5083192	Pump head outlet bushing, ExionLC 2.0 Binary Pump-200+
5083188	Pump head seal, high pressure, ExionLC 2.0 Binary Pump-200+
5083190	Pump head seal, low pressure, ExionLC 2.0 Binary Pump-200+
5083189	Pump head spring, compression, ExionLC 2.0 Binary Pump-200+
5081223	Ring, Backing, ExionLC 2.0 pump heads
5081228	Rotor seal, 1000 bar, polyimide-based plastic, ExionLC 2.0 Autosampler
5080853	Rotor seal, 6-port, 2-position, ExionLC 2.0 system
5086108	Rotor seal, 6-port multi position Wash System-200
5080729	Rotor seal, 6+1 port, polyimide-based plastic, 1240 bar
5081232	Rotor seal, 8-port, multi-position

**Table 2-1 Spare Parts (continued)** 

Part Number	Description
5086109	Rotor seal, 8-port, multi-position Wash System-200
5083194	Rotor seal, purge valve, ExionLC 2.0 Binary Pump-200+
5080742	Sample loop, 10 μL, stainless steel, with fittings
5078658	Sample loop, 50 μL
5080741	Sample loop, 100 μL, stainless steel, with fittings
5078660	Sample loop, 250 μL
5078661	Sample loop, 1000 μL
5078662	Sample loop, 2000 μL
5080732	Sample needle, 60 μL, stainless steel
5080744	Sample needle, 15 µL, stainless steel, with fittings
5081224	Seal, High Pressure, ExionLC 2.0 pump heads
5081221	Seal, low pressure, ExionLC 2.0 pump heads
5078670	SECURITY CAP SEALING PLUG
5078669	SECURITY CAP STARTER KIT / 1 CAP
5078668	SECURITY CAP STARTER KIT / 4 CAPS
5078666	SECURITY LINK 100 μm i.d. × 500 mm LG SS
5078665	SECURITY LINK 100 μm i.d. × 350 mm LG SS
5078667	SECURITY LINK 100 μm i.d. × 600 mm LG SS
5086515	SECURITY LINK 100 µm i.d. × 1000 mm SS
5080072	Silicon tubing, 1 mm i.d.
5081226	Spring, Compression, ExionLC 2.0 pump heads
5080852	Stator, 6-port, 2-position
5080922	Stator, 8-port, multi-position
5086110	Stator, 8-port, multi-position Wash System-200
5080727	Syringe, 2,500 μL
5080726	Syringe, 250 μL
5087204	Syringe, 60 mL, Luer-lock, PE/PP
-	

**Table 2-1 Spare Parts (continued)** 

Part Number	Description
5080743	Syringe valve, ExionLC 2.0 autosampler
5080865	TC-200 Cell, Test, ExionLC 2.0 detector
5080740	Tee, waste collection, ExionLC 2.0 autosampler
5082414	Tool, seal replacement for ExionLC 2.0+ Binary Pump-200+
5085875	Tubing #1, Degasser to Tee, Wash System-200
5085881	Tubing #2, Tee to syringe valve, Wash System-200
5085882	Tubing #3, syringe valve to wash valve, Wash System-200
5085883	Tubing #4, Wash Valve to autosampler sample valve, Wash System-200
5085884	Tubing #5, Tee to SSV, Wash System-200
5085890	Tubing #6, SSV to pump, Wash System-200
5085851	Tubing #7, Tee to syringe valve, Wash System-200
5085868	Tubing #8, Pump to wash valve, Wash System-200
5087603	Tubing #9, Wash valve to autosampler wash port, Wash System-200
5085879	Tubing, buffer, 250 μL, Autosampler-200
5083175	Tubing, FEP, 115 mm long x 0.5 mm i.d.
5083176	Tubing, FEP, 170 mm long x 0.5 mm i.d.
5083177	Tubing, FEP, 190 mm long x 0.5 mm i.d.
5083174	Tubing, FEP, 200 mm long x 0.5 mm i.d.
5083178	Tubing, FEP, 60 mm long x 0.8 mm i.d.
5088257	Tubing, SS, Pump A to Aux pressure sensor A
5088261	Tubing, SS, Aux pressure sensor A to Aux pump A
5088263	Tubing, SS, Purge valve to main pressure sensor
5088265	Tubing, SS, Aux pump B to purge valve
5088270	Tubing, SS, Aux pump A to purge valve
5088272	Tubing, SS, Aux pressure sensor B to Aux pump B
	Tubing, SS, Pump B to Aux pressure sensor B

#### **Table 2-1 Spare Parts (continued)**

Part Number	Description
5080926	Tubing, U connector, ExionLC 2.0 pump
5086151	Valve head, 6-port, multi-pos, 1/16", Wash Station-200
5086152	Valve head, 8-port, multi-pos, 1/8", Wash Station-200
5081462	Waste can, 10 L
5081565	Wrench set, Torx



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**Table 3-1 Pump Spare Parts** 

Part Number	Description	Notes
228-52964-42	Check valve, input-UHP TP	Quantity: 2 pc
228-53334-96	Check valve, out-UHP Assembly New Type	Quantity: 2 pc
228-55272-41	Diaphragms, PTFE, 2-pack	Quantity: 1 pc
		Replace during plunger replacement.
4425375	Drain tube assembly	_
4426171	Ferrule, white PTFE, for 3 mm OD tubing	_
4426107	Filter assembly, suction	Quantity: 1 pc
228-57501-92	Filter, inline	Quantity: 1 pc
4426106	Filter, solvent suction	Quantity: 1 pc
4425410	Nut, PEEK	Used to connect tubing.
4425342	Nut, male, PEEK, 1.6 mn, narrow head, for 1/16" o.d. tubing	_
5041624	Plunger with holder assembly and diaphragm	Quantity: 2 pc
5050410	Plunger seal, with backup ring	Quantity: 2 pc
228-57647-43	Tool kit	Includes necessary tools for maintenance.
4413343	Tubing, ETFE, 1.6 mm o.d. × 0.8 mm ID, length 1 m	

**Table 3-1 Pump Spare Parts (continued)** 

Part Number	Description	Notes
4426176	Tubing, FEP, 3 mm o.d. × 1.5 mm ID, length 1 m	_

#### **Table 3-2 Autosampler Spare Parts**

Part Number	Description	Notes
228-67725-41	Cap, rinse port, no hole, 10 pcs	_
228-67725-43	Cover, rinse port	Rinse port cover
4426106	Filter, suction	_
4426113	Fitting, flangeless P330	_
4412723	Fuse 218, 6.3 A, 5.2 × 20	_
228-71840-44	Label, for 384 well deep well plates (100 pc set)	Recognition labels
228-71840-43	Label, for 384 well microplates (100 pc set)	Recognition labels
228-71840-42	Label, for 96 well deep wellplates (100 pc set)	Recognition labels
228-71840-41	Label, for 96 well microplates (100 pc set)	Recognition labels
228-64909-98	Needle, coated	_
228-64909-97	Needle, uncoated	_
4412813	Nut, male, stainless steel, for 1/16" i.d. tubing (W6 hex portion)	
5079896	Plate, micro tube	_
228-35010-92	Plunger assembly	_
228-71780-42	Rotor seal, HPV	_
228-71780-43	Rotor seal, LPV	_
228-63132-45	Sample loop, 100 μL	_
228-63132-44	Sample loop, 50 μL	_

**Table 3-2 Autosampler Spare Parts (continued)** 

Part Number	Description	Notes
228-63132-45	Sample loop, for loop injection, 100 µL	_
228-71759-43	Sample loop, for loop injection, 20 µL	_
228-71759-42	Sample loop, for loop injection, 5 μL	
228-71759-44	Sample loop, for loop injection, 50 μL	
4425339	Seal plunger, black GFP, for Autosampler Metering Pump	_
228-64364-42	Seal, needle	_
228-53184-91	Tubing, 0.1 × 600 mm, pre- bent stainless steel tubing and fittings	
4426135	Tubing, FEP, 2 mm i.d. × 3 mm o.d.	_
5079893	Vial plate, 1 mL	_
5079897	Vial plate, 1.5 mL	_
5079895	Vial plate, 10 mL	
5079894	Vial plate, 4 mL	
4413360	Vial, Shimadzu, 1.1 mL, 100/pkg including caps	_
4425149	Vial, Shimadzu, 4 mL pp, 100/pkg	_
4425150	Vial, Shimadzu, disposable, 200/pkg	

**Table 3-3 Degasser Spare Parts** 

Part Number	Description	Notes
228-56687-43	Ferrule, white PTFE, for1/8" o.d. tubing	_
228-54509-02	Filter, air intake, 2-pack	_

#### **Table 3-3 Degasser Spare Parts (continued)**

Part Number	Description	Notes
228-56687-42	Nut, for 1/8" o.d. tubing	

#### **Table 3-4 Oven Spare Parts**

Part Number	Description	Notes
4412722	Fuse, 5.0A/T/250V, 5.2 × 20	_

#### **Table 3-5 Detector Spare Parts**

Part Number	Description	Notes
4425123	Gasket, flow cell, 2-pack	_
228-73407-00	Lamp, deuterium	For the ExionLC AE UV DETECTOR
228-63621-02	Lamp, deuterium	For the ExionLC AE PDA DETECTOR
228-73443-00	Lamp, tungsten	For the ExionLC AE UV DETECTOR
228-73309-00	Lamp, tungsten	For the ExionLC AE PDA DETECTOR

Shimadzu LC-40 System

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**Table 4-1 Pump Spare Parts** 

Part Number	Description	Notes
5039288	Check valve, inlet, for LC-40D/DXR/BXR	<ul><li>Dual (D/DXR/DX3): 2 pc</li><li>Binary (BXR/BX3): 4 pc</li></ul>
228-52964-42	Check valve, Input-UHP TP	<ul><li>Dual (D/DXR/DX3): 2 pc</li><li>Binary (BXR/BX3): 4 pc</li></ul>
228-45705-43	Check valve, outlet, for LC-40D/DXR/BXR	<ul><li>Dual (D/DXR/DX3): 2 pc</li><li>Binary (BXR/BX3): 4 pc</li></ul>
228-53334-96	Check valve, Out-UHP Assembly New Type	<ul><li>Dual (D/DXR/DX3): 2 pc</li><li>Binary (BXR/BX3): 4 pc</li></ul>
228-55272-41	Diaphragms, PTFE, 2-pack	Dual (D/DXR/DX3): 1 pc     Binary (BXR/BX3): 2 pc     Replace during plunger replacement.
4425375	Drain tube assembly	_
4462590	Ferrule, stainless steel, 1/16" o.d. 3 pcs	_
4426171	Ferrule, white PTFE, for 3 mm o.d. tubing	_
4426107	Filter assembly, suction	Dual (D/DXR/DX3): 1 pc     Binary (BXR/BX3): 2 pc Includes a tube.

**Table 4-1 Pump Spare Parts (continued)** 

Part Number	Description	Notes
4425351	Filter, inline, for LC-40D/DXR/BXR	<ul><li>Dual (D/DXR/DX3): 1 pc</li><li>Binary (BXR/BX3): 2 pc</li></ul>
228-57501-92	Filter, inline	<ul><li>Dual (D/DXR/DX3): 1 pc</li><li>Binary (BXR/BX3): 2 pc</li></ul>
4426106	Filter, solvent suction	<ul><li>Dual (D/DXR/DX3): 1 pc</li><li>Binary (BXR/BX3): 2 pc</li></ul>
4425410	Nut, PEEK	Used to connect tubing.
4425342	Nut, male, PEEK, 1.6 mn, narrow head, for 1/16" o.d. tubing	_
4412795	Nut, male, stainless steel, for 1/16" o.d. tubing	_
5041624	Plunger with holder assembly and diagram	<ul><li>Dual (D/DXR/DX3): 2 pc</li><li>Binary (BXR/BX3): 4 pc</li></ul>
5039287	Plunger assembly, with diaphragm, for LC-40D	_
4425353	Plunger seal, 42455	<ul><li>Dual (D/DXR/DX3): 2 pc</li><li>Binary (BXR/BX3): 4 pc</li></ul>
5050410	Plunger seal, with backup ring	<ul><li>Dual (D/DXR/DX3): 2 pc</li><li>Binary (BXR/BX3): 4 pc</li></ul>
228-57647-43	Tool kit	Includes necessary tools for maintenance.
4412690	Tube, spiral, KS-4	_
4413343	Tubing, ETFE, 1.6 mm o.d. × 0.8 mm i.d., length 1 m	_
4426176	Tubing, FEP, 3 mm o.d. × 1.5 mm i.d., length 1 m	_

**Table 4-2 Autosampler Spare Parts** 

Part Number	Description	Notes
228-67725-41	Cap, rinse port, no hole, 10 pcs	_
228-67725-43	Cover, rinse port	Rinse port cover
4462590	Ferrule, SIL-30, 3/pkg	_
4426106	Filter, suction	_
4426113	Fitting, flangeless P330	_
4412723	Fuse 218, 6.3A, 5.2 × 20	_
228-71840-44	Label, for 384 well deep well plates (100 pc set)	Recognition labels
228-71840-43	Label, for 384 well microplates (100 pc set)	Recognition labels
228-71840-42	Label, for 96 well deep well plates (100 pc set)	Recognition labels
228-71840-41	Label, for 96 well microplates (100 pc set)	Recognition labels
228-64909-98	Needle, coated	_
228-64909-97	Needle, uncoated)	_
4412813	Nut, male, stainless steel, for 1/16" i.d. tubing (W6 hex portion)	_
5079896	Plate, micro tube	_
228-35010-92	Plunger assembly	_
228-71780-41	Rotor seal, HPV, for SIL-40/40C	_
228-71780-42	Rotor seal, HPV	_
228-71780-43	Rotor seal, LPV	_
228-63132-45	Sample loop, 100 μL	_
228-63132-44	Sample loop, 50 µL	_
228-63132-45	Sample loop, for loop injection, 100 µL	_

**Table 4-2 Autosampler Spare Parts (continued)** 

Part Number	Description	Notes
228-71759-43	Sample loop, for loop injection, 20 µL	_
228-71759-42	Sample loop, for loop injection, 5 μL	_
228-71759-44	Sample loop, for loop injection, 50 µL	_
4425339	Seal plunger, black GFP, for Autosampler Metering Pump	_
228-71781-41	Seal, HPV (packing), for SIL-40/40C	_
228-64364-42	Seal, needle	_
228-53184-91	Tubing, 0.1 × 600 mm, pre- bent stainless steel tubing and fittings	_
4426135	Tubing, FEP, 2 mm i.d. × 3 mm o.d.	_
5079893	Vial plate, 1 mL	_
5079897	Vial plate, 1.5 mL	_
5079895	Vial plate, 10 mL	_
5079894	Vial plate, 4 mL	_
4412816	Vial, Shimadzu, 0.3 mL si, 100/pkg	_
4413360	Vial, Shimadzu, 1.1 mL, 100/ pkg, including caps	_
4426268	Vial, Shimadzu, 1.5 mL, 100/ pkg, including caps	
4425149	Vial, Shimadzu, 4 mL pp, 100/pkg	
4425150	Vial, Shimadzu, disposable, 200/pkg	_

#### **Table 4-3 Degasser Spare Parts**

Part Number	Description	Notes
228-56687-43	Ferrule, white PTFE, for 1/8" o.d. tubing	_
228-54509-02	Filter, air intake, 2-pack	_
228-56687-42	Nut, for 1/8" o.d. tubing	_

#### **Table 4-4 Oven Spare Parts**

Part Number	Description	Notes
4412722	Fuse, 5.0A/T/250V, 5.2 × 20	_

#### **Table 4-5 Detector Spare Parts**

Part Number	Description	Notes
4425123	Gasket, flow cell, 2-pack	_
228-73407-00	Lamp, deuterium	For the Shimadzu LC-40 UV detector
228-63621-02	Lamp, deuterium	For the Shimadzu LC-40 PDA detector
228-73443-00	Lamp, tungsten	For the Shimadzu LC-40 UV detector
228-73309-00	Lamp, tungsten	For the Shimadzu LC-40 PDA detector
4412685	Lens, flow cell	_

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